

ABSTRACT OF THE DISCLOSURE

A bioadhesive wound-healing composition includes pullulan, pyruvate, an antioxidant, and a mixture of saturated and unsaturated fatty acids. The composition can be provided in the form of a film that does not self-adhere. The composition can include additional medicinal agents, such as polymyxin B sulfate, bacitracin zinc, and neomycin sulfate. Methods for producing the composition and methods for treating wounds with the composition are also disclosed.